

## MULTISTAGE CENTRIFUGAL COMPRESSOR

Abstract

Multistage centrifugal compressor comprising at least one  
10 stage 10 which, in turn, comprises a lower half-tank 11,  
an upper half-tank 12, a series of lower half-diaphragms  
16, a shaft 13 equipped with a series of rotors 14, a se-  
ries of upper half-diaphragms 18, a lower suction half-  
diaphragm 51, an upper suction half-diaphragm 52, the  
15 lower suction half-diaphragm 51 and the upper suction  
half-diaphragm 52 include a portion 71 and a portion 72,  
respectively, suitable for being coupled with the lower  
half-diaphragms 16 and with the upper half-diaphragms 18,  
respectively, to form a first pile 41 of lower half-  
20 diaphragms 16 and a second pile 42 of upper half-  
diaphragms 18, respectively.